Assignment 8: API Spec

CS 493

Spring 2022

Susan Liu

5/21/2022

App Site: <http://34.168.199.118:8000/>

# Create a Boat

Allows you to create a new boat.

|  |
| --- |
| POST /boats |

## Request

### Request Parameters

None

### Request Body

Required

### Request Body Format

JSON

### Request JSON Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Required?** |
| name | String | Name of the boat | Yes |
| type | String | Type of boat | Yes |
| length | Integer | Size of boat | Yes |

### Request Body Example:

|  |
| --- |
| {      "id": 5710353417633792,      "length": 28,      "name": "Sea Witch",      "self": "http://34.168.199.118:8000/boats/5710353417633792",      "type": "Catamaran"  } |

## Response

### Response Body Format

JSON or HTML

### Response Status

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 201 Created |  |
| Failure | 400 Bad Request | * Request object is missing at least one of the required attributes * Name cannot be longer than 16 characters. It can also only contain letters of the alphabet * Type cannot be longer than 16 characters. It can also only contain letters of the alphabet * Length can’t be longer than 7 digits. It can also only contain numbers |

### Response Examples

* Datastore will generate an ID and store it with the entity created. This value needs to be sent with the response body in below example.
* ‘self’ attribute with contain live like to REST resource corresponding to the boat (the url of the boat). The ‘self’ attribute is not stored in Datastore.

### Success

|  |
| --- |
| Status: 201 Created  {      "id": 4858442896375808,      "length": 28,      "name": "Sea Food Time",      "self": "http://34.168.199.118:8000/boats/5646488461901824",      "type": "Catamaran"  } |

### Failure

|  |
| --- |
| 400 Bad Request  {      "Error": "The request object is missing at least one of the required attributes"  } |

# List all Boat

Allows you to get all boats.

|  |
| --- |
| GET /boats |

## Request

### Request Parameters

None

### Request Body

None

## Response

### Response Body Format

HTML/JSON

### Response Body Example

|  |
| --- |
| {  "boats": [  {  "name": "Sea Witch",  "length": 28,  "type": "Catamaran",  "id": 5632499082330112,  "self": "http://34.168.199.118:8000/boats/5632499082330112"  },  {  "type": "Catamaran",  "name": "Sandwhich",  "length": 28,  "id": 5636645067948032,  "self": "http://34.168.199.118:8000/boats/5636645067948032"  },  {  "length": 28,  "name": "Sea Witch",  "type": "Catamaran",  "id": 5642368648740864,  "self": "http://34.168.199.118:8000/boats/5642368648740864"  }  ],  "next": "http://34.168.199.118:8000/boats?limit=3&offset=3"  } |

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 200 OK |  |

### Response Statuses

### Success

|  |
| --- |
| Status: 200 OK  <!DOCTYPE html>  <html lang="en">  <head>      <link rel="stylesheet" href="static/style.css">      <meta description="description" content="Show information of the person">      <meta name="author" content="Susan Liu">      <meta charset="UTF-8">      <meta name="viewport" content="width=device-width, initial-scale=1.0">      <title>Assignment 8 - Containerize It</title>  </head>  <body style="background-color: rgb(157, 233, 248);">      <h1>Boat List</h1>      <!--<a href='https://accounts.google.com/o/oauth2/v2/auth?response\_type=code&client\_id=852345851633-h4u7n8tf6u5ge6fujn1d9hu4sv8astui.apps.googleusercontent.com&redirect\_uri=https://joining-in.uw.r.appspot.com/oauth&scope=email profile&state=randomran" + mestring + "'>Please follow this link to authorize.</a>-->      <!--<p>{      &#34;boats&#34;: [          {              &#34;type&#34;: &#34;Catamaran&#34;,              &#34;length&#34;: 28,              &#34;name&#34;: &#34;Sea Witch&#34;,              &#34;id&#34;: 5632499082330112,              &#34;self&#34;: &#34;http://34.168.199.118:8000/boats/5632499082330112&#34;          },          {              &#34;length&#34;: 28,              &#34;name&#34;: &#34;Sandwhich&#34;,              &#34;type&#34;: &#34;Catamaran&#34;,              &#34;id&#34;: 5636645067948032,              &#34;self&#34;: &#34;http://34.168.199.118:8000/boats/5636645067948032&#34;          },          {              &#34;type&#34;: &#34;Catamaran&#34;,              &#34;length&#34;: 28,              &#34;name&#34;: &#34;Sea Witch&#34;,              &#34;id&#34;: 5642368648740864,              &#34;self&#34;: &#34;http://34.168.199.118:8000/boats/5642368648740864&#34;          }      ],      &#34;next&#34;: &#34;http://34.168.199.118:8000/boats?limit=3&amp;offset=3&#34;  }</p>          <p></p>-->      <pre id="json">{      &#34;boats&#34;: [          {              &#34;type&#34;: &#34;Catamaran&#34;,              &#34;length&#34;: 28,              &#34;name&#34;: &#34;Sea Witch&#34;,              &#34;id&#34;: 5632499082330112,              &#34;self&#34;: &#34;http://34.168.199.118:8000/boats/5632499082330112&#34;          },          {              &#34;length&#34;: 28,              &#34;name&#34;: &#34;Sandwhich&#34;,              &#34;type&#34;: &#34;Catamaran&#34;,              &#34;id&#34;: 5636645067948032,              &#34;self&#34;: &#34;http://34.168.199.118:8000/boats/5636645067948032&#34;          },          {              &#34;type&#34;: &#34;Catamaran&#34;,              &#34;length&#34;: 28,              &#34;name&#34;: &#34;Sea Witch&#34;,              &#34;id&#34;: 5642368648740864,              &#34;self&#34;: &#34;http://34.168.199.118:8000/boats/5642368648740864&#34;          }      ],      &#34;next&#34;: &#34;http://34.168.199.118:8000/boats?limit=3&amp;offset=3&#34;  }</pre>  </body>  </html> |

# Get a Boat

Allows you to get an existing boat.

|  |
| --- |
| GET /boats/:boat\_id |

## Request

### Request Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Required?** |
| boat\_id | String | ID of the boat | Yes |

### Request Body

None

## Response

### Response Body Format

HTML or JSON

### Response Body Example

|  |
| --- |
| Boat Info {  "type": "Catamaran",  "length": 28,  "name": "Sea Witch",  "id": "5642368648740864",  "self": "http://34.168.199.118:8000/boats/5642368648740864"  } |

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 200 OK |  |
| Failure | 404 | * No Boat with ID |

### Response Statuses

### Success

|  |
| --- |
| Status: 200 OK  <!DOCTYPE html>  <html lang="en">  <head>      <link rel="stylesheet" href="static/style.css">      <meta description="description" content="Show information of the person">      <meta name="author" content="Susan Liu">      <meta charset="UTF-8">      <meta name="viewport" content="width=device-width, initial-scale=1.0">      <title>Assignment 8 - Containerize It</title>  </head>  <body style="background-color: rgb(157, 233, 248);">      <h1>Boat Info</h1>      <!--<a href='https://accounts.google.com/o/oauth2/v2/auth?response\_type=code&client\_id=852345851633-h4u7n8tf6u5ge6fujn1d9hu4sv8astui.apps.googleusercontent.com&redirect\_uri=https://joining-in.uw.r.appspot.com/oauth&scope=email profile&state=randomran" + mestring + "'>Please follow this link to authorize.</a>-->      <!--<p>{      &#34;type&#34;: &#34;Catamaran&#34;,      &#34;length&#34;: 28,      &#34;name&#34;: &#34;Sea Witch&#34;,      &#34;id&#34;: &#34;5642368648740864&#34;,      &#34;self&#34;: &#34;http://34.168.199.118:8000/boats/5642368648740864&#34;  }</p>          <p></p>          <p></p>          <p>"id" : </p>          <p>"length" : </p>          <p>"name" : </p>          <p>"self" : </p>          <p>"type" : </p>-->      <pre id="json">{      &#34;type&#34;: &#34;Catamaran&#34;,      &#34;length&#34;: 28,      &#34;name&#34;: &#34;Sea Witch&#34;,      &#34;id&#34;: &#34;5642368648740864&#34;,      &#34;self&#34;: &#34;http://34.168.199.118:8000/boats/5642368648740864&#34;  }</pre>  </body>  </html> |

### Failure

|  |
| --- |
| Status: 404 Not Found  {  "Error": "No boat with this boat\_id exists"  } |